

FIG. 1

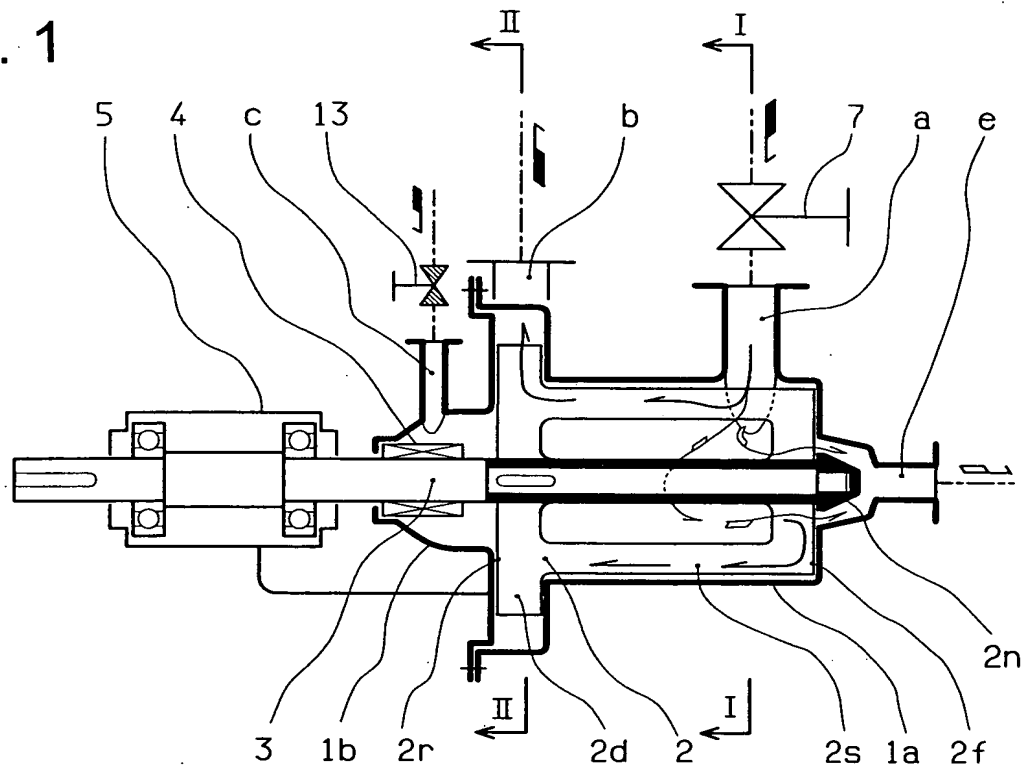


FIG. 2

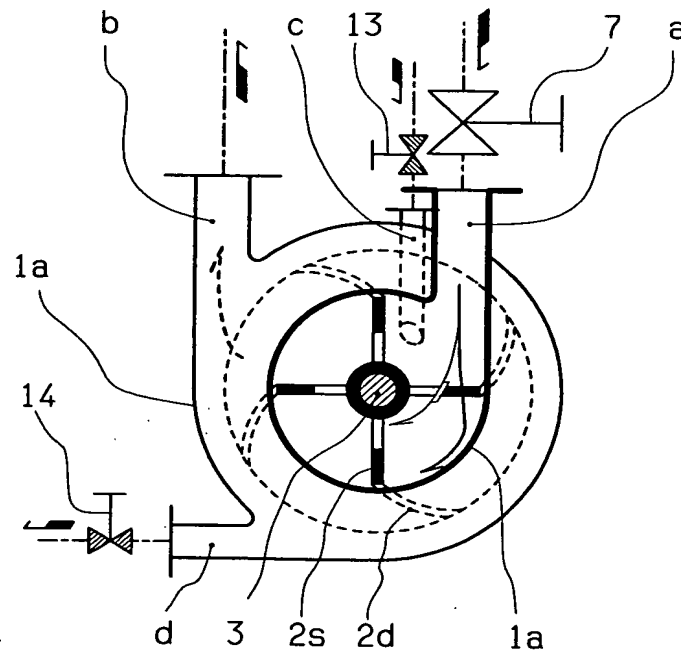


FIG. 3

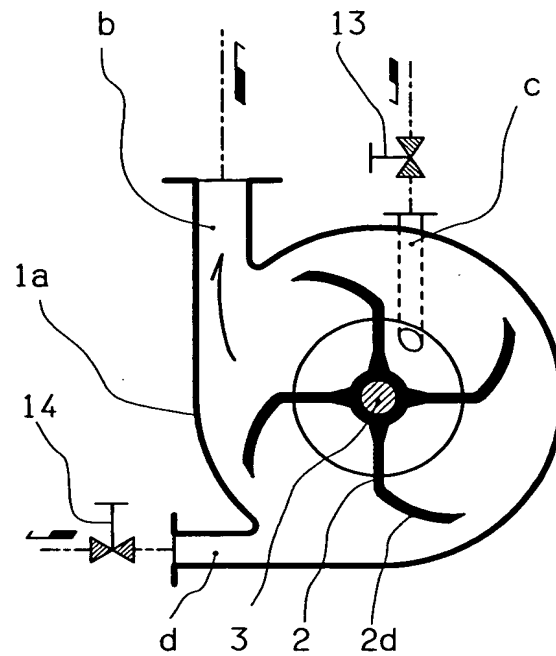
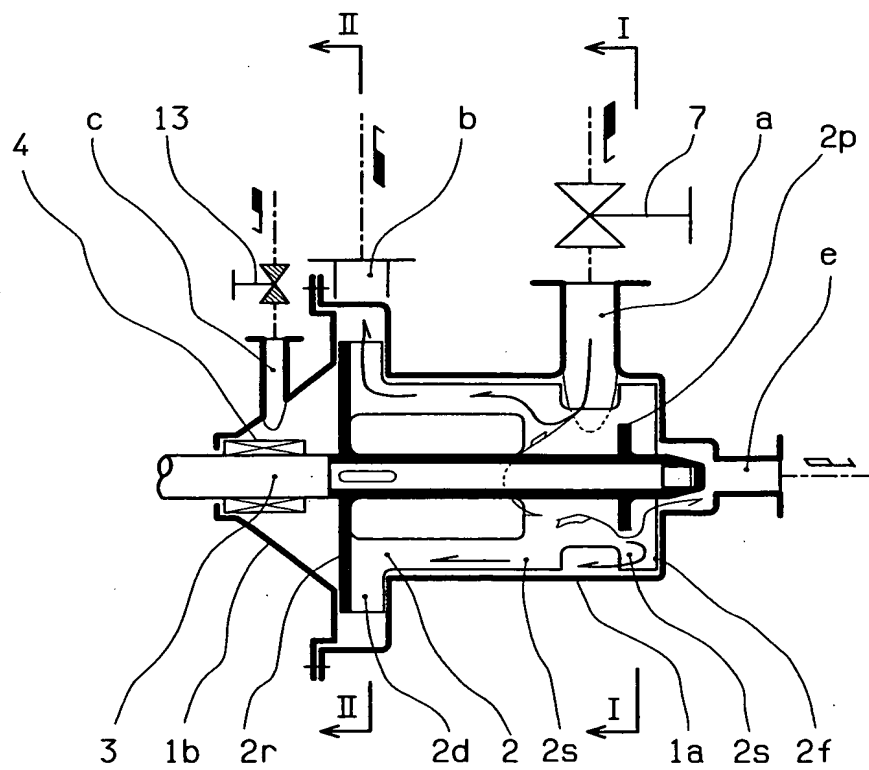


FIG. 4



A schematic diagram of a pump assembly. It features a central rotor with four spokes, mounted on a shaft. The rotor is surrounded by a housing with several ports. Port 1a is at the top left, port 13 is at the top right, and port 14 is at the bottom left. Port 3 is at the bottom center. Ports 2p, 2s, and 2d are also indicated. The diagram includes various valves and flow paths, with dashed lines indicating internal components or flow directions. Labels a, b, c, d, 7, 13, 14, 1a, 2p, 2s, 2d, and 3 are used to identify specific parts and ports.

A schematic diagram of a pump assembly. It features a central impeller with four curved blades mounted on a central shaft. Four outlet pipes, labeled 1, 2, 3, and 4, extend radially from the impeller. Each pipe is equipped with a valve (indicated by a triangle symbol) and a check valve (indicated by a triangle with a line through it). The pipes are connected to a common horizontal manifold at the bottom. The entire assembly is housed within a circular casing. A dashed line indicates the vertical axis of rotation. Labels include 1a, 1b, 1c, 1d, 2, 2d, 3, 4, 13, and 14.

FIG. 7

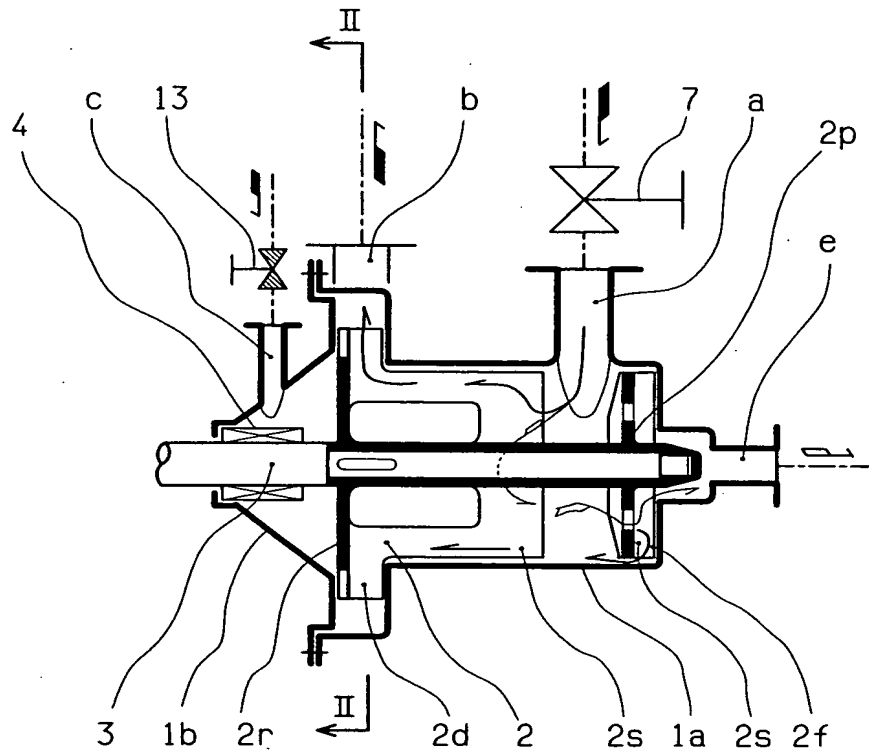


FIG. 8

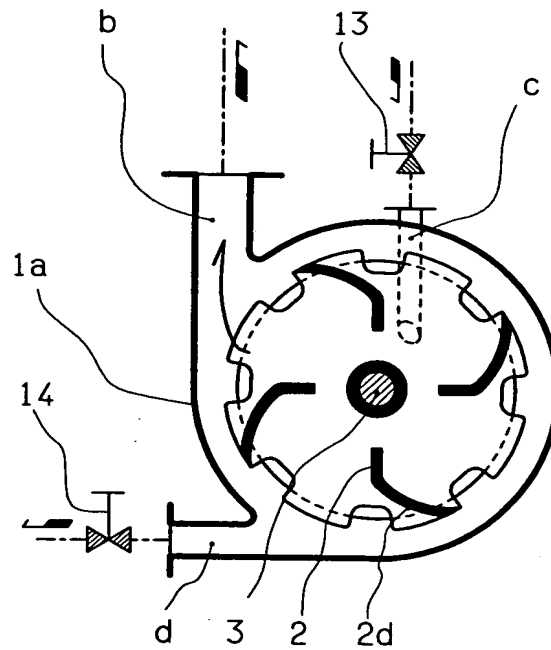


FIG. 9

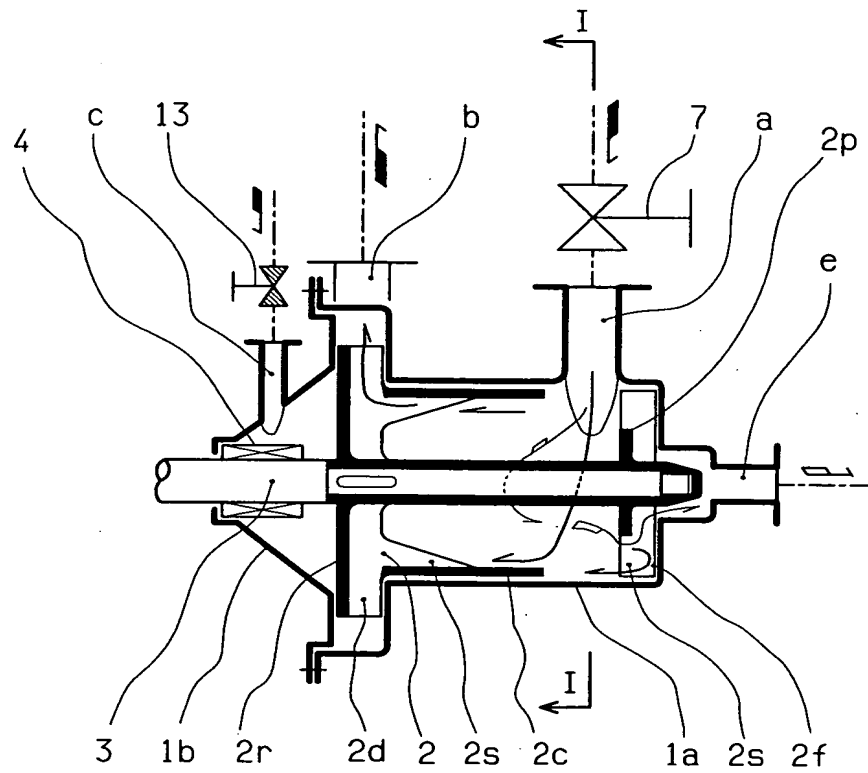


FIG. 10

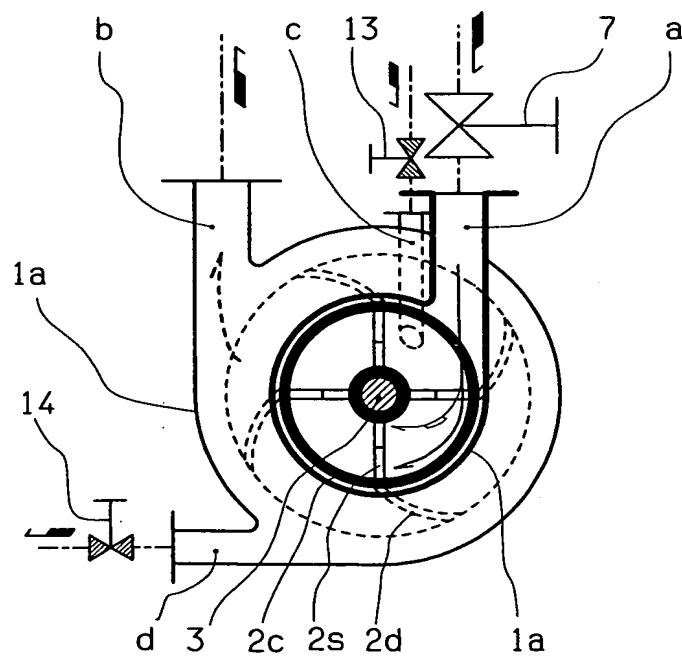


FIG. 11

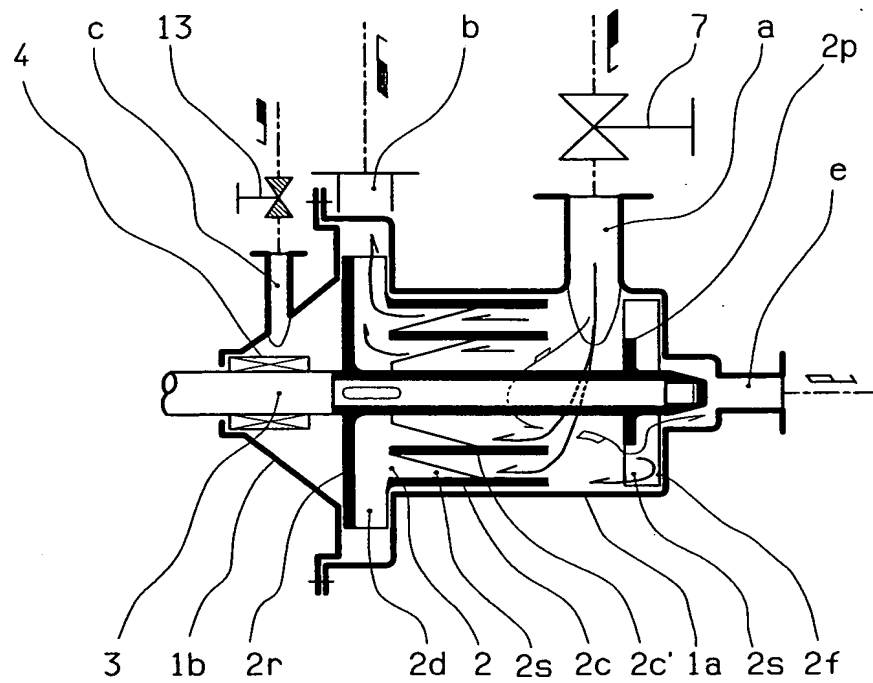


FIG. 12

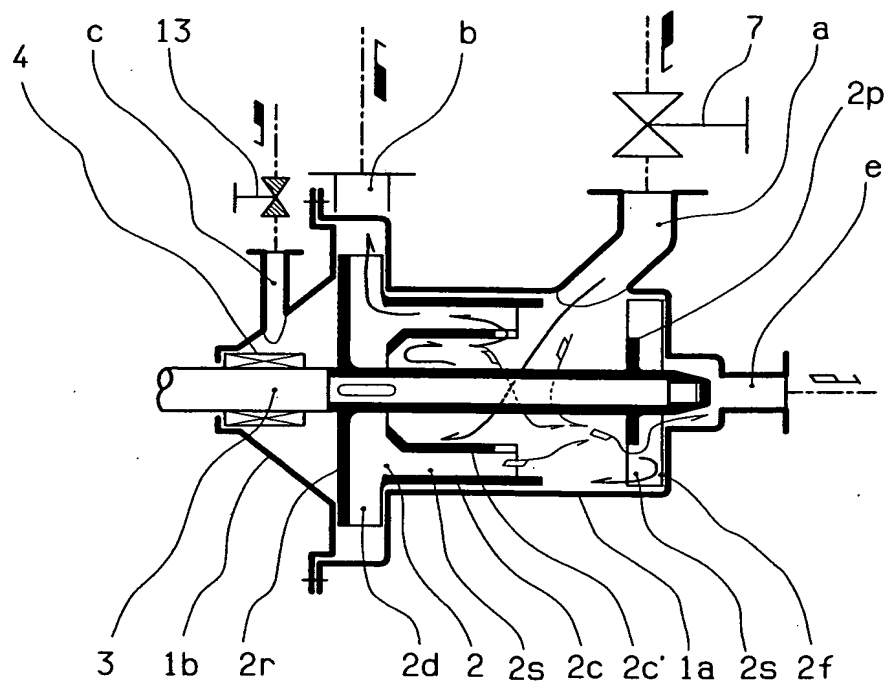


FIG. 13

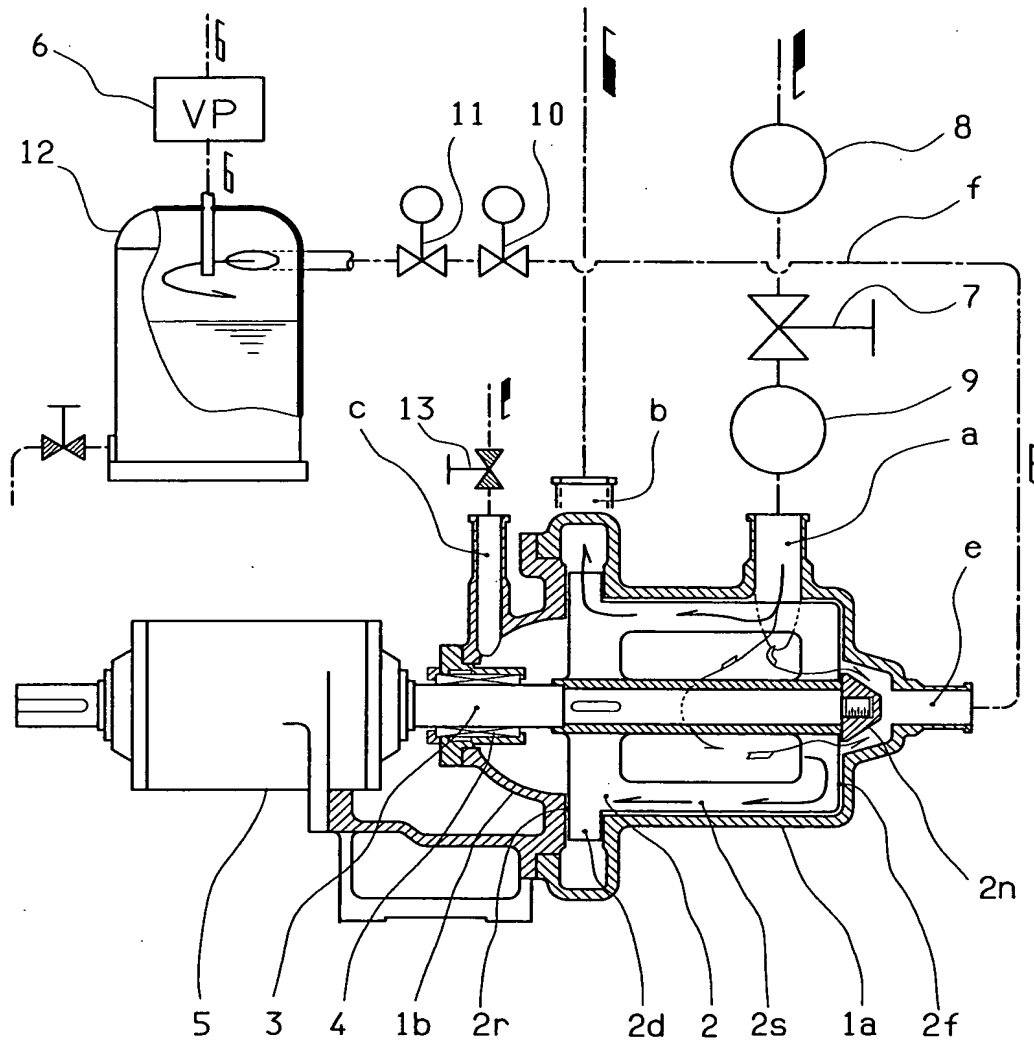
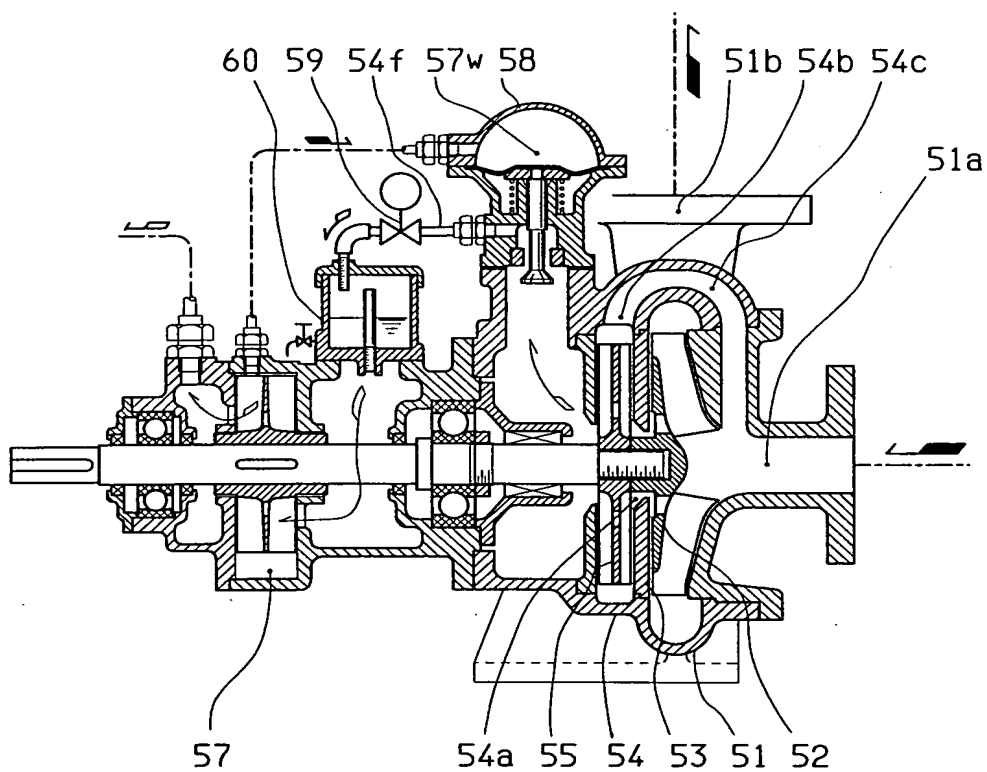


Fig. 14

The diagram illustrates a water supply system. On the left, a rectangular box labeled 'VP' (water pump) is connected to a vertical pipe labeled '1'. This pipe leads to a horizontal pipe labeled '6'. A valve, represented by a circle with a cross, is located on this horizontal pipe. The pipe continues to a vertical section labeled '7', which contains a float valve mechanism. This mechanism is connected to a horizontal pipe labeled '20'. This pipe leads to a large vertical cylindrical tank labeled '15'. Inside the tank, there is a float valve mechanism labeled '16'. The tank is connected to a horizontal pipe labeled '17'. This pipe leads to a circular pump labeled 'P' (pump). The pump is connected to a horizontal pipe labeled '18'.

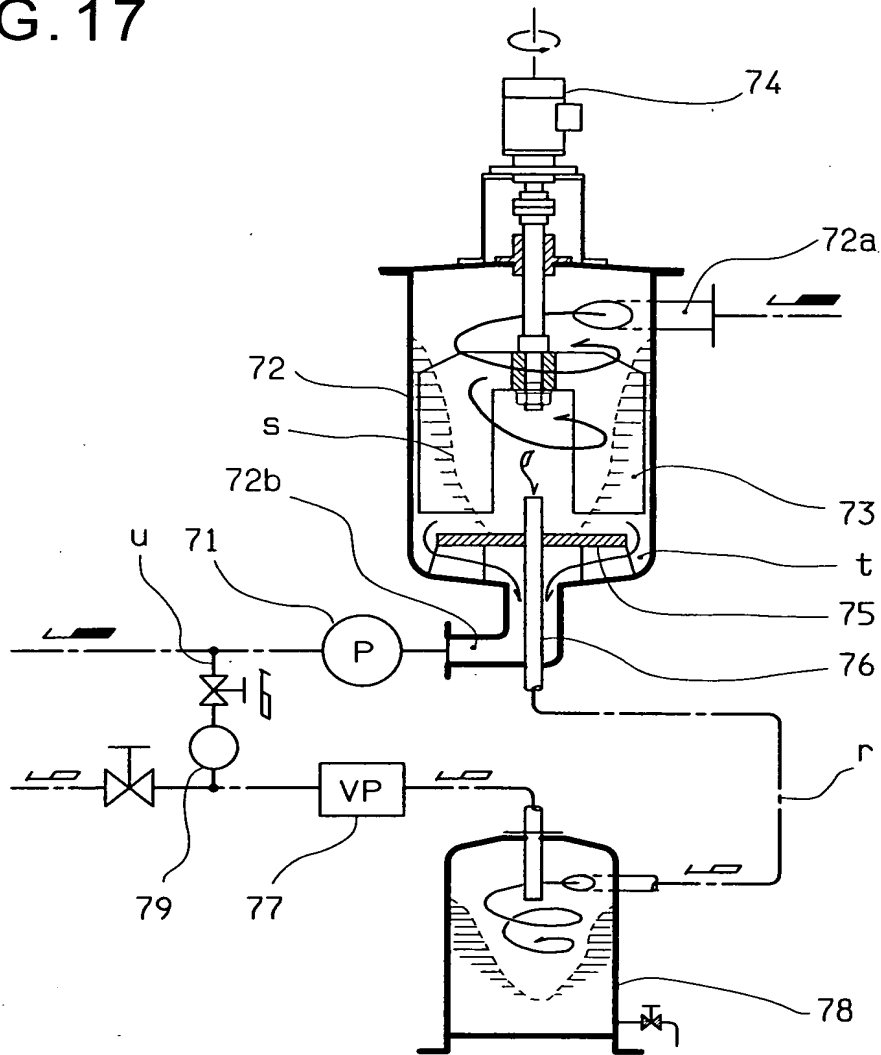


FIG. 16



PRIOR ART

FIG. 17



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